# Translation

### PATENT COOPERATION TREATY



# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference					
FA03-401PCT	FOR FURTHER ACTION	NC	See Form PCT/IPEA/416		
International application No.	International filing date (d	ay/month/year)	Priority date (day/month/year)		
PCT/JP2003/016831	25 December 2003 (		02 July 2003 (02.07.2003)		
International Patent Classification (IPC) or n C25B 1/00, C01B 31/02, H01L 2	ational classification and ID		02.07.2003)		
Applicant		<del></del>			
JAPAN	SCIENCE AND TECI	INOLOGY A	GENCY		
This report is the international prelin Authority under Article 35 and trans	ninary examination report, emitted to the applicant according	stablished by this rding to Article 30	International Preliminary Examining 6.		
2. This REPORT consists of a total of	3 sheets incl	uding this gover s	Ibaat		
3. This report is also accompanied by A	NNEXES, comprising	ading this cover s	meer.		
	to the International Bureau,	l a total of	charte as C II		
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sheets of the descr and/or sheets cont Administrative Ins		igs which have be zed by this Autho	een amended and are the basis of this report ority (see Rule 70.16 and Section 607 of the		
sheets which supe beyond the disclos Supplemental Box		ich this Authority lication as filed,	considers contain an amendment that goes as indicated in item 4 of Box No. I and the		
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readable form only, as in Administrative Instruction	licated in the Supplements	a sequence listing Box Relating to	g and/or tables related thereto, in computer sequence Listing (see Section 802 of the		
4. This report contains indications relati	ing to the following items:				
Box No. I Basis of the rep	port				
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain docume					
Box No. VII Certain defects	in the international applicat	ion			
i i	tions on the international ap				
Date of submission of the demand	Date	of completion of	f this report		
23 June 2004 (23.06.20		-	farch 2005 (23.03.2005)		
Name and mailing address of the IPEA/JP	Auti	norized officer	,		
Facsimile No.	Tala	nhone No			

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

Box No. I	Basis of the report	PCT/JP2003/016831
otherwise in	to the language, this report is based on the international application in the la	anguage in which it was filed, unless
	eport is based on translations from the original language into the following is language of a translation furnished for the purpose of:	ing language,
	nternational search (under Rules 12.3 and 23.1(b))	
	publication of the international application (under Rule 12.4)	
	nternational preliminary examination (under Rules 55.2 and/or 55.3)	
The int	to the elements of the international application, this report is based on the receiving Office in response to an invitation under Article 14 are referenced to this report):  ernational application as originally filed/furnished	a (replacement sheets which have been red to in this report as "originally filed"
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	ce listing and/or any related table(s) – see Supplemental Box Relating to Se	quence Listing.
. The ame	ndments have resulted in the cancellation of:	
	e description, pages	
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(Rule 70.	ort has been established as if (some of) the amendments annexed to this reace they have been considered to go beyond the disclosure as filed, as description, pages	eport and listed below had not been indicated in the Supplemental Box
the	claims, Nos.	
the	drawings, sheets/figs	
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	, some or all of those sheets may be marked "superseded."	
m PCT/IPEA/4	09 (Box No. I) (January 2004)	

International application No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP03/16831

Statement	•		
Novelty (N)	Claims	1-4	YES
	Claims		NO NO
Inventive step (IS)	Claims	1-4	YES
	Claims		NO NO
Industrial applicability (IA)	Claims	1-4	
	Claims		YES NO

Document 1: The Synthesis of Nano Carbon in Liquid Phase at Room Temperature (Haruo Yokomichi), Papers Prepared for the 50th United Lecture Meeting on Applied Physics of Spring 2003, 27 March, 2003 (27.03.03),

Document 2: Electrochemical Deposition of Nanosize-Carbons, (Haruo Yokomichi), Proceedings of the 24th General Symposium on Fullerene Nanotube, 8 January, 2003 (08.01.03), page 36

Document 3: JP, 10-167714, A (Osaka Gas Co., Ltd.), 23 June, 1998 (23.06.98), full text

Document 4: WO, 03-000590, A1 (Japan Science and Technology Corp.), 3 January, 2003 (03.01.03), full text,

Document 5: JP, 2003-115259, A (Sony Corp.), 18 April, 2003 (18.04.03), full text

The subject matters of claims 1-4 are neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.